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Chelms Morburg 83

Green box

Francis D. Wait

admitted March 22<sup>d</sup> 1820

James P. Quinn  
about March 25 1870

## Cholera Morbus.

This disease is defined to be a discharge of bile by vomiting and purging, frequent in their occurrence, often very violent and accompanied by griping.

It prevails more generally in high ranges of temperature. Hence it is endemic to tropical climates and here its influence is widely felt and sometimes its devastations are true by frightful. Cases of it occur at all seasons of the year, but the warmest weather is found to be much more favourable to its production. In temperate climates it seldom or never occurs except in summer and the beginning of autumn, August and September in which months the thermometer generally indicates the greatest degree of heat.

It has generally been supposed by physicians, both ancient and modern, that bile is the proximate cause of this disease. The great heat of the weather acting upon the hepatic system as a stimulant, the secretion of bile is morbidly increased and rendered <sup>more acrid</sup> and thus both acting together give rise to the various phenomena of the disease.

From circumstances previously related Cullen says "It is, I think, very evident that this disease is the effect of a



warm atmosphere, producing some change in the state of the bile in the human body: and the change may consist, either in the matter of the bile being rendered more acid, and therefore fitted to excite a more copious secretion; or in the same matter, its being prepared to pass off in larger quantity than usual. But this opinion has of late years been controverted and in the course of this dissertation I hope to show justly.

Obstructed perspiration has with more propriety been considered as a cause of this disease. The author above cited again says "It has been remarked, that in warm climates and seasons, after extremely hot and dry weather, a fall of rain cooling the atmosphere seems especially to bring on this disease." Indeed! (remarks a late writer although in reference to a another author) Can a fall of rain be supposed to increase the secretion of bile? Cullen again, however, subjoins, "And it is very probable that an obstructed perspiration may have also a share in this, though it is also certain that the disease does appear, when no change in the temperature of the air, nor any application of cold has been observed. Here what is conceived to be a probable cause is, no doubt, in very many instances the



real one. Cullen again says "It is possible, that in some cases, the heat of the season may give only a predisposition, and that the disease may be excited by certain ingesta or other causes." The late writer above quoted again asks the question "Can these causes, I say again, be considered as increasing the secretion of bile? Cullen however observes "But it is equally certain, that the disease has occurred without any previous change or error, either in diet, or in the manner of life, that could be observed."

Dr Caldwell in his notes on Cullen observes upon some of the above remarks that, "The appearance of Cholera, independent of improper exposure, or some impropriety in diet or drink, is a rare occurrence" and that, "It is always practicable to derive the disease from some exciting cause".

But to return to obstructed perspiration. The surface of the body being suddenly acted upon by cold becomes constricted and the capillaries before distended are now rendered flaccid, and the blood that was floating upon the surface is driven from it and internal congestion of the viscera takes place and morbid impressions are propagated from one to the other.





Certain passions of the mind produce similar effects. That these have great influence and sometimes a very deleterious one upon the body has been observed by those who have paid the slightest attention to the causes of disease. Every one must have occasionally observed the shrunken features and pallid countenances of those who have been acted upon by fear. Anger likewise, though not like fear immediately depressing to the system, is yet productive of much mischief. Its morbid impressions are variously made and doubtless, in some instances, give rise to the disease of which we are treating, although such occurrences may perhaps be rare.

Certain ingesta have been ascribed as causes of this disease and no doubt truly. Vegetables which produce flatulency, unripe fruits and acrid substances of various kinds, cold water taken into the stomach when the body is heated and fatigued together with intemperance in drinking and debauchery in eating have caused the disorder as every one must have more or less witnessed.

This disease attacks persons of all ages and temperaments, the strong and robust as well as those of relaxed fi-

1847  
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but although the young and vigorous may perhaps be often selected as its victims.

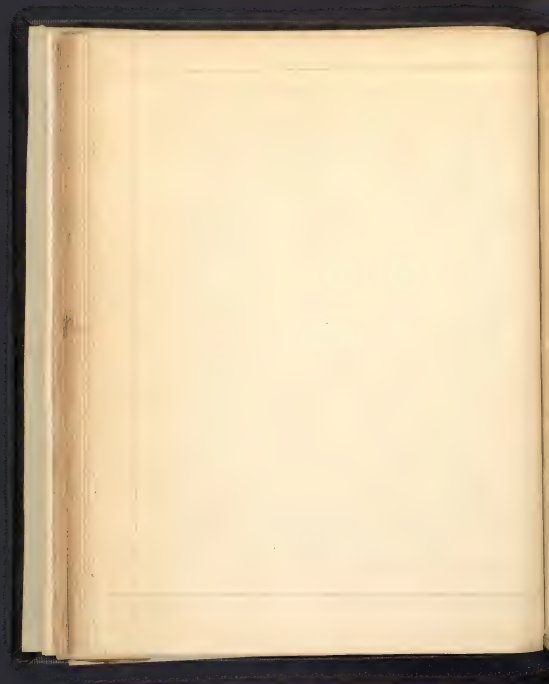
The diagnostic symptoms of this <sup>disease</sup> may be readily known from those of some other diseases to which it may seem to bear some resemblance. The stools in cholera consist, for the most part, of pure bile white in appearance they are mucous and bloody, the feces being retained until evacuated by treatment. In contrast the stools consist of the natural feces though much more liquid than usual. It may be known from cholera by the total absence of sensation.

The prognosis will be more or less favorable according to the mildness or violence of the attack. If it seems to yield pretty readily to the remedies employed our opinion must be favorable.

The disease having occurred the symptoms are as follows. It is seen in its attack and sometimes accompanied with any symptoms of its preceding disorder or that may serve as a warning to the patient of the danger to be apprehended. Usually however a gripping pain, flatulency distention and more particularly restlessness on the part of the patient. Frequently passing in a



and the bowels are emptied of fluid contents which are thin and watery. Very soon nausea returns and vomiting takes <sup>place</sup> of the contents of the stomach often violent and very distressing. These symptoms alternate with each other or occur at the same time. In a short time the matter discharged upwards and downwards consists of pure bile. The pain increases and spasms are communicated to the abdominal muscles and to those of the lower extremities. The patient becomes much exhausted. No respiration is laborious, thirst not and pain in the stomach cause him much distress. The pulse is weak and frequent. These symptoms continue for a day or two and if the patient is allowed to eat they gradually or a spontaneously subside or are arrested by medicine the former, however is a very rare occurrence. This is the mildest form of the disease. But cases do occur where at a distance every remedy though directed by the soundest judgment and the best medical skill, will the symptoms just mentioned are repeated. First salivary and restoration of strength come on alternatingly together. The respiration is extremely increased and laborious with heaving of the shoulders. The pain in the stomach, heat



and throat are much increased. The spasmodic contractions of the  
vessels of the abdomen and lower extremities are very violent.  
The features are pallid and livid. The extremities are cold  
and are beset with a cold burning vesic. Tongues take  
place and the pulse which was at first full and frequent  
becomes still more so, until completely exhausted the in-  
fernal winds and death terminates his sufferings. This event  
sometimes takes place in twenty four hours and sometimes in  
a much longer period.

Cases however, which run their course so quickly, seldom  
occur in our climate; but they are frequent in the West and  
particularly in the East Indies where the climate has of late  
prevailed to a great extent depopulating, in some instances whole  
villages, of which I had an opportunity of learning while in that  
country.

Having related the symptoms of this disease I will  
now revert to what has generally been considered as its origi-  
nal cause viz the secretion of bile and shall endeavour to ex-  
pose the fallacy of this opinion.

Now is it an idle speculation to imagine that the





since this time, because our pathological views certainly have  
great influence on practice. It is the only more foundation on  
which we can erect an enlightened and successful practice.

It is stated by writers on this disease that the first discharges  
are vomit & in some cases of the contents of the stomach and  
intestines. And if the disease depended upon a putrid material quan-  
tity or acrimony of the bile we should expect to see it  
flow upon the first discharges. But so far is this from being the  
case that the very persons who endure it, declare that the  
stools are at first thin and watery and that what is vomited up  
consists of the contents of the stomach imperfectly digested. It is  
not until the disease has continued for some time that purulence  
is evacuated and then is access of being the cause of all the  
mischief produced.

It is stated by a writer on the disease, Smead that  
in the worst cases which he saw and which terminated fatally,  
that there was not the least appearance of bile and that when  
ever it did occur he hailed it as a favourable symptom. Hence  
we infer that instead of its being the cause it is merely an effect,  
"Instead of the original disease it is only a symptom."



That the bile, as is asserted, is more acid than usual can hardly be denied. It is certainly reasonable to suppose that as it is secreted in larger quantities than natural and passes in a much shorter time from the system it would be refined and therefore impro-  
ductive of those mischievous effects which are ascribed to it. We might, with the same probability, say that the urine which, in diabetes, is secreted in a very unusual quantity, is at the same time refined of acid qualities and is therefore the cause of the disease, or that the phlegm and mucus which are so abundantly excreted in some diseases of the pulmonary organs are more refined and therefore considered as causing not the cough, which the patient expe-  
riences. Altered as this subject it is not more so than to say that vice is the cause of the venereal disease. It is, in much the effect of the disease it unites it of diabetes to the discharge of mucus & of inflammation.

The passing pains and throbs which the patient expe-  
riences in the micturition, are attributed to the acid. They are the usual accompaniments of inflammation and are always more or less present in the animal affections according to the degree of the inflammation and to the place where we have no reason to suspect



the presence of bile.

That a high range of temperature acts upon the liver by stimulating, to an increased secretion of bile is allowed by universal consent, and that the system is unusually excited is equally true, and therefore more easily affected by external impressions.

It is acknowledged by writers upon this subject that the liver is more apt to receive even sudden variations of weather—such as a fall of rain cooling the atmosphere or otherwise changes from heat to cold unaccompanied by moisture, and thus, no doubt in a great majority of cases, is the cause of the disease. So atmospheric influences then, we are to look for the great cause of this disease.

The liver being excited and moved by irritation if suddenly exposed to cold soon is restricted, its natural circulation of blood takes place internally and a morbid impression being made upon the surface is propagated to the viscera particularly to the liver which is thus forced into a state of inflammation and is rendered, by the accumulation of blood, extremely irritable and their contents are discharged and soon bile makes its appearance. Here then at the very onset of the disease nature endeavours to



rupt source for vomiting is well known to bring the <sup>st.</sup> ~~stomach~~ <sup>stomach</sup> into action and to determine the food to the surface and thus restore the healthy action. By this cause Pancreas acts as the valve which is closed in the act of vomiting the flow is caused into action and all at once an immense quantity of bile is poured out into the stomach and intestines and is discharged as even of per even. 18.

Here then what is supposed to be the cause of the epidemic  
and which has been in reality no other than an effect or  
as a late writer remarks "Thus we see that the last link in the  
chain of effects, and that too a voluntary one, has for ages been set  
down as the cause of Cholera", increased exertion of vice.

From this view of the subject, in the management of the disease, there are two indications to be attended to, to restore the healthy action of the skin and to allay the morbid excitement and irritability.

The practice which has, for a long time and very generally, obtained of administering spirit and diluent beverages in the improvement of this disease, appears to be incorrect if not altogether useless, except in so far as by distending the stomach they, in some degree, prevent the violence of vomiting. It is merely preventing for





a symptom while all our efforts should be directed to the removal of the cause. It is endeavouring to strengthen and support a withering limb while we are repairing of the disease which is pressing upon the root and trunk <sup>and base</sup> which alone is the cause of the decay. Besides we are wasting time which is so very precious in this disease and which should be employed in using the most active remedies.

Bleeding in the earlier stages of this disease and where the strength of the patient is not greatly increased may be useful, but in the generality of these cases it may, probably, be dispensed with, the disease giving way to other remedies. But where the disease in its early progress and progress is very violent, attended with great prostration of strength approaching to syncope and where the pulse is quick and frequent and where we have every probable reason to conclude that the system of the patient was at first healthy, the utility of the bloodletting is probably more extensive.

Cauties in this disease are not to be considered so as to equal and this is the opinion of those who have been the most successful in it. The vomiting which continuously occurs being only a sign for a stopping operation is more than this is dangerous. It would be only adding fuel to the fire which is already burning.



ready concerning the patient.

In cases in which the first indication we should endeavour to restore the equilibrium in the circulation, and thus induce morbid excitement. In this case it is more important than the warm bath. It induces the blood to the surface, equalizes the circulation, and occasionally produces a salutary effect in the vomiting. To fulfil the one indication, it is about a quart, given in the middle of evening and not a quart with hot water, could be applied in the extremities and much used to produce a reaction. The use of a reaction of the circulation, common in fevers or parts of the system, is, in fevers, and is employed, using the help of the patient with time, induces to the end more effect.

But when the above is not checked in three remedies we must resort to all those remedies which are calculated to stop irritation. In fevers this is not a reaction, various remedies have been employed and to induce the proper action is more effective than a combination of drugs and leeches. However the gain of the process united to two of the baths may be given at a dose. Its operation is four-fold, to stop morbid irritation and to remove any offending matter that is calculated to keep it up.



If it remains upon the stomach, we may, after waiting a proper time, give a dose of epsom salts to promote its operation. Sometimes these means alone will subdue the disease. But in others so great is the irritation of the stomach that every thing given by the mouth is rejected. Here then we must have recourse to those means which are employed to restrain vomiting. Stoddyne injections are usefully and frequently very effectually employed to allay the irritability of the alimentary canal. Give a drachm or two of laudanum every two or three hours according to the urgency of the symptoms. Concurring to the same end an opium plaster over the epigastric region will be found useful or cloths wrung out of a strong decoction of cloves. At the same time that we are using these external applications we should employ the most active internal remedies. Lime water and milk, a table spoonful of each may be given every ten minutes, or a little mint tea will be found serviceable. But if the vomiting continue obstinate we must employ more powerful means. Fifty to a hundred drops of laudanum with an equal number of peppermint in a half of a wine glass full of brandy diluted with a little water may be given and if rejected repeat it again. The opposing draught with



laudanum given after each vomiting will sometimes be found beneficial. The spirits of turpentine so advantageous in many of the diseases of the alimentary canal might, perhaps, be of service in this complaint. If, however, all these means should fail in effectually stopping the progress of the disease we should without delay apply a blister over the epigastrium. If we happily succeed in arresting the vomiting then we may recur again to the combination above mentioned in order to discharge from the bowels every thing that may have a tendency to protract the disease.

To prevent a relapse it is necessary to continue the opium for a few days, at least, to keep down irritation, taking care in the mean time to keep the bowels in a soluble condition.

The diet of the patient should be strictly guarded. It should be light and easily digested. Essence of beef, beef tea, chicken broth, animal jelly and soft boiled eggs answer this purpose very well and at the same time serve to strengthen the system. Vegetables of every kind should be totally prohibited as they are liable to become accevit and might renew the disease. Tea coffee and brandy considerably diluted with water may be given to him or drinks. To remove the debility and impart tone to the system the vege

